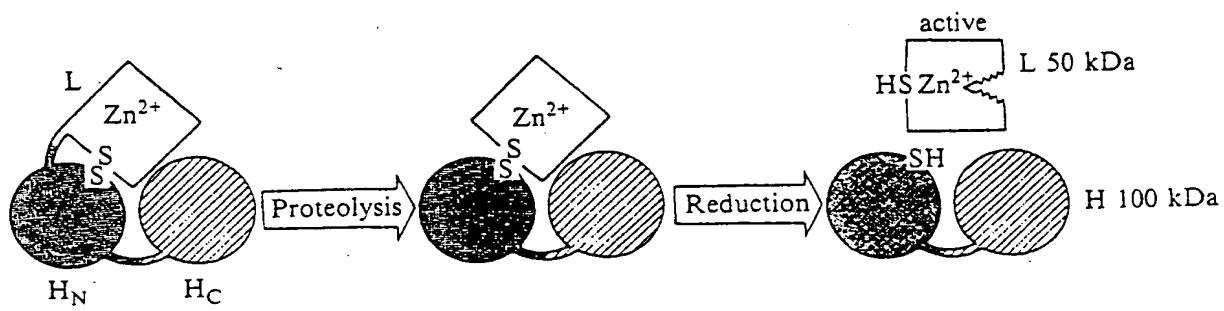


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FIGURE 1

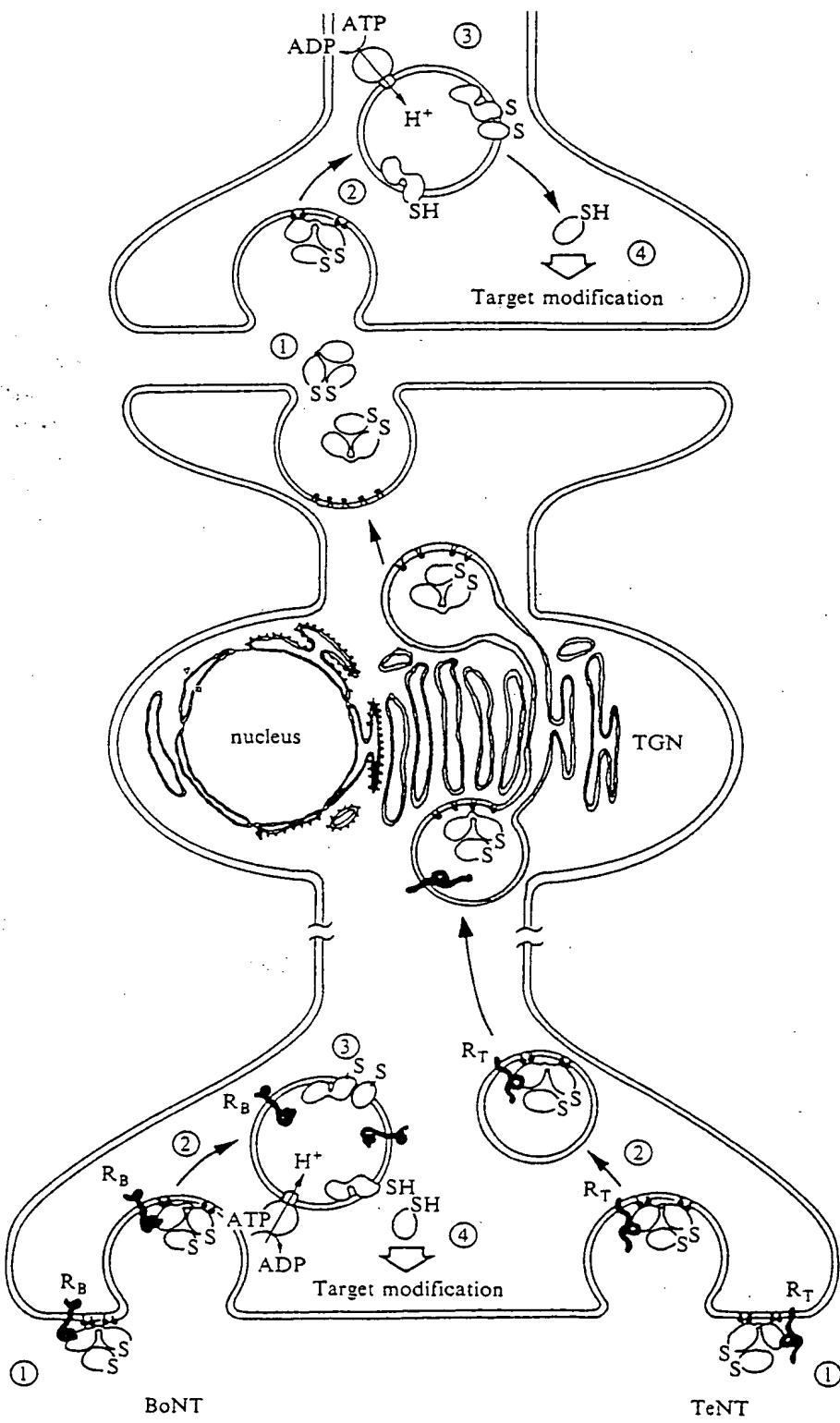


FIGURE 2

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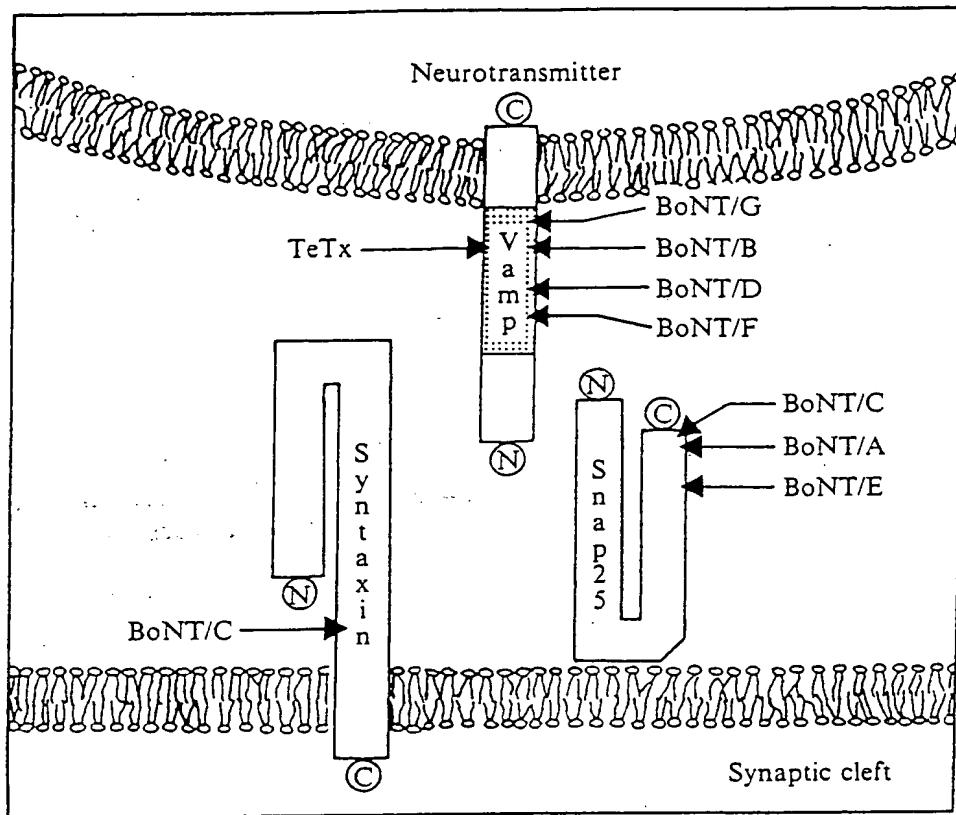
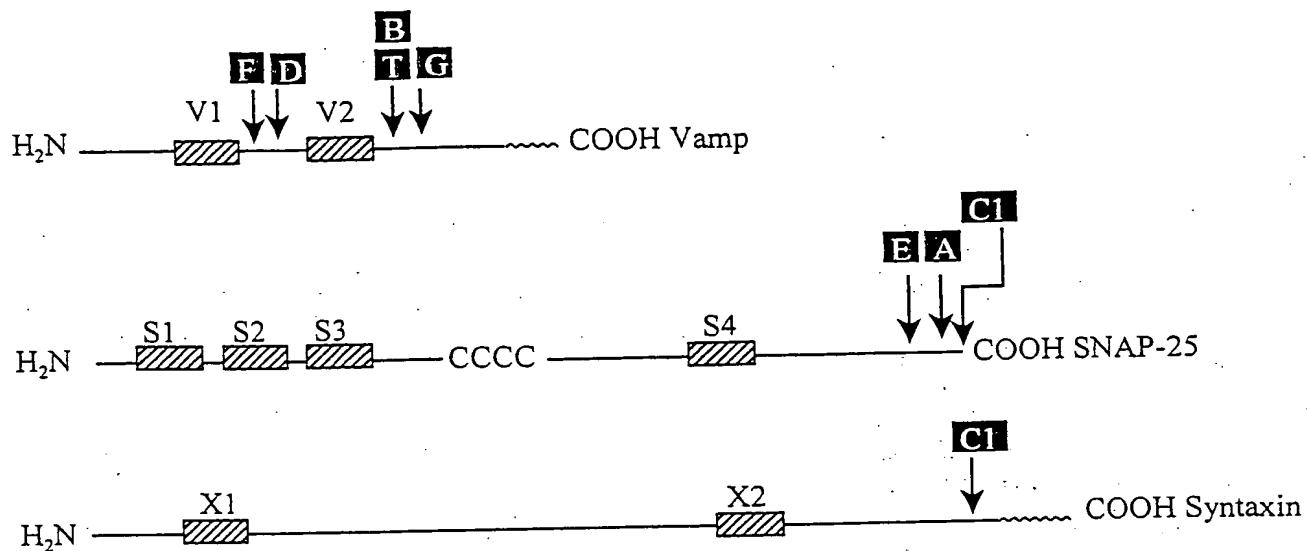


FIGURE 3

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A.



B.

$\text{h} \ominus \ominus \times \text{h} \ominus \times \text{h p}$

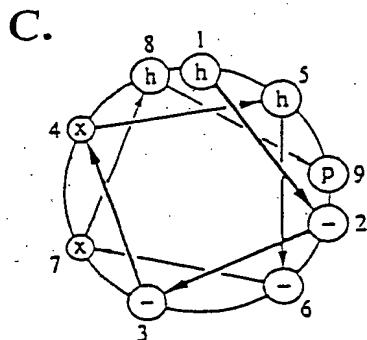


FIGURE 4

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1
SNAP-25 Human (1) ----- MAEDADMRNEELLEMORRADOLADESLESISTRMLQVEEESKAGPRTLYMIDDEOGEOLERIEEGMDIN
SNAP-25 Mouse (1) ----- MAEDADMRNEELLEMORRADOLADESLESISTRMLQVEEESKAGPRTLYMILDEOGEQEQLERIEEGMDIN
SNAP-25 Drosophila (1) ----- MPADPSEEVAPOVKTEIPELQINAQVADESLESTRRMLQVEEESKAGIRTLVALDDQGEQOLDRIIEEGMDIN
SNAP-25 Goldfish (1) ----- MAEDADMRNEELTDMQARDQGDLESLESISTRMLQVEEESKAGIRTLVMLDEOGEQEQLERIEEGMDIN
SNAP-25 Sea Urchin (1) ----- MEDONDMMNRSELEEIQMOSNMQTDESLESISTRMLQMAEEESODGIRTLVMLDEQGEQOLDRIIEEGMDIN
SNAP-25 Chicken (1) ----- MAEDADMRNEELLEMORRADOLADESLESISTRMLQVEEESKAGIRTLVMLDEQGEQOLDRVEEGMNHIN

75
150
SNAP-25 Human (69) KDMKEAEKNIDLGKFCGGICVCPCN ----- KLUSSDAYKKAWGNNDGIVVAS-OPARAVDEROMAISGGFIRRVTN
SNAP-25 Mouse (69) KDMKEAEKNIDLGKFCGGICVCPCN ----- CLKSSDAYKKAWGNNDGIVVAS-OPARAVDEROMAISGGFIRRVTN
SNAP-25 Drosophila (76) ADMREAEKNISGMEMKCCGICVLPCKNSQSFKEEDG----- TKGNDDGKVNNQPCRMDGIVVAS-OPARAVDEROMAISGGFIRRVTN
SNAP-25 Goldfish (69) KDMKEAEKNIDLGNLICVGCGICVLPCKNSQSFKEEDG----- GOSWGNNDGIVVSS-OPARAVDEROMAISGGFIRRVTN
SNAP-25 Sea Urchin (71) TDMREAEKNIGLERKCGICVCPWKLLNFEGDDYKKTWKGNDDGKVNSHOPMREDDRGCGGNASMTIRTN
SNAP-25 Chicken (69) QDMKEAEKNIDLGKFCGGIFCPCN ----- KLUSSDAYKKAWGNNDGIVVAS-OPARAVDEROMAISGGFIRRVTN

151
225
SNAP-25 Human (140) DARENEMDENLEQVSIGLGNLRIMATDMGNETDQNQIDDRIMEKAIDSNKTRIDEAN---ORATKMLGSG-----
SNAP-25 Mouse (140) DARENEMDENLEQVSIGLGNLRIMATDMGNEDTONQIDDRIMEKAIDSNKTRIDEAN---ORATKMLGSG-----
SNAP-25 Drosophila (148) DAREDEMENMGQVNITGMTRNVALDMGSELENQNRQIDRINRKGESNEAPLAVAN---ORAHQKL-----
SNAP-25 Goldfish (137) DARENEMDENLEQVSIGLGNLRIMATDMGNEDTONQIDDRIMADSNKTRIDEAN---ORATKMLGSG-----
SNAP-25 Sea Urchin (146) DAREDEMENLQVSIGLGNLRIMATDMQSEIGAQNSQVGRITSKAESENGRINSAD---KRAKNTJRNK-----
SNAP-25 Chicken (140) DARENEMDENLEQVSIGLGNLRIMATDMGNEDTONQIDDRIMEKLIPTPGLMKPTSVQFORCSAVVKCSKVHFL

226
260
SNAP-25 Human (207) -----
SNAP-25 Mouse (207) -----
SNAP-25 Drosophila (213) -----
SNAP-25 Goldfish (204) -----
SNAP-25 Sea Urchin (213) -----
SNAP-25 Chicken (215) LMISQRAVPBSFCFYHGTYLLGLHTCTYOPHCKCCPV

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1
VAMP-1 HUMAN (1) MSAPAQPPAEGTEGTAPG-CGGPPGPP-PNMAISNRRIQQTQAQVEEVVDIIRVNVDKVLERDKLSEELDDRADALQ
VAMP-2 HUMAN (1) ---MSATAATAAPAAAPAGECGGPAPPNTTSNRRIQQTQAQVDEVVVDIIRVNVDKVLERDKLSEELDDRADALQ
VAMP-2 MOUSE (1) ---MSATAATAVPAAAPAGEEGGPAPPNTTSNRRIQQTQAQVDEVVVDIIRVNVDKVLERDKLSEELDDRADALQ
VAMP Bovine (1) ---MSATAATAVPAAAPAGEEGGPAPPNTTSNRRIQQTQAQVDEVVVDIIRVNVDKVLERDKLSEELDDRADALQ
VAMP-2 Frog (1) ---MSAPAAAGPAAAAGDGAPOGPP-NLISNRRIQQTQAQVDEVVVDIIRVNVDKVLERDKLSEELDDRADALQ
VAMP Sea urchin (1) ---MAAPPPPQAPSNKRLQQTQAQVDEVVVDIIRVNVDKVLERDKLSEELDDRADALQ

75
123
76
VAMP-1 HUMAN (75) GASQFESSAAKLRKRYWWKNCKMMIMEGAIATIVVVIVIEFI----
VAMP-2 HUMAN (73) GASQFETSAAKLRKRYWWKNCKMMIILGVICAIILLIIIVYEST-----
VAMP-2 MOUSE (73) GASQFETSAAKLRKRYWWKNCKMMIILGVICAIILLIIIVYEST-----
VAMP Bovine (73) GASQFETSAAKLRKRYWWKNCKMMIILGVICAIILLIIIVYEST-----
VAMP-2 Frog (71) GASQFETSAAKLRKRYWWKNCKMMIIMGVICAIILLIIIVYEST-----
VAMP Sea urchin (57) GASQFETNAAGKLKRKRYWWKNCKMMIHAIIIVIIVYAIIVQSOKK

FIGURE 6

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1	Syntaxin 1A	human	(1)	-MKDRTOELRTAK- DSDDDDDVAVTVD -RDRMDEFFEEQVEE IRGFDIDKTAEN VEVKRKHSSATIASPNED EKTK
	Syntaxin 1B2	human	(1)	-MKDRTOELRSK- DSDDEEEV- NHVD -RDHMDDEFFEEQVEE IRGCIEKLSED VEVKRKHSSATIASPNPDEKTK
	Syntaxin 1A	mouse	(1)	-MKDRTOELRTAK- DSDDDDDVAVTVD -RDRMDEFFEEQVEE IRGFDIDKTAEN VEVKRKHSSATIASPNPDEKTK
	Syntaxin 1a	drosophila	(1)	MTKDRLAALHAQSDDEETEVANNDGHDSYMDDEFAQVEEIRGMIDKVODNEEVVKKKHSAILSAQPTD EKTK
	Syntaxin A C.	elegans	(1)	MTKDRLSSALKAAQOSEDEQDDMHMDTG -NAQYMEEEFEEQVEEIRGSVTITANNEEVVKKKHSAILSNPVNDQKEK
	Syntaxin Sea	urchin	(1)	-VRDRIGLSLRPNE -EDDVGPEVAVNE -SEKEMEEFEEQVEEVNNIDKESKN DILSAPQADEKVK
76	Syntaxin 1A	human	(73)	ELEELMSDIKKETANKVRSKIKSIEOSIEOEGLENRSSAADIRKTQHSTLSRKAFEVVM
	Syntaxin 1B2	human	(72)	QELEDITADLIKETANKVRSKIKMIEOSIEOECHNRSAADIRKTQHSTLSRKAFEVVM
	Syntaxin 1A	mouse	(73)	ELEELMSDIKKETANKVRSKIKSIEOSIEOECHNRSAADIRKTQHSTLSRKAFEVVM
	Syntaxin 1a	drosophila	(76)	QELEDIUMADIKKANANVRGKLLKGIEQNIIEOEEOQNKSSAADIRKTQHSTLSRKAFEVVM
	Syntaxin A C. elegans		(75)	ELEELMSDIKKETANKVRAANKVRGKLLKGIEQNIIEOEEOQNKSSAADIRKTQHSTLSRKAFEVVM
	Syntaxin Sea	urchin	(73)	DELEELMSDIKKETANKVRAKLXKMEOSIEQEEESAKMNSAADVRIRKTQHSTLSRKAFEVVM
151	Syntaxin 1A	human	(148)	RIQROLEITIGRTTTSSEELEDMEESGNPATFASGIMDSSISKOALSEIEITRHSEI IJKLENSIRELHD MFMDMAM
	Syntaxin 1B2	human	(147)	RIQROLEITIGRTTNTSEELEDMEESGKIAIFDDIKMD SONTIKOALNEIEITRHSEI IJKLETSIRELHD MFMDMAM
	Syntaxin 1A	mouse	(148)	RIQROLEITIGRTTNTSEELEDMEESGKIAIFDDIKMD SONTIKOALNEIEITRHSEI IJKLETSIRELHD MFMDMAM
	Syntaxin 1a	drosophila	(151)	RIQROLDIAGKQVGDDELEEMIEESCNPGVFTQGIIITDQOAKQFLLADIEARHNDIMKLESSIRELHD MFMDMAM
	Syntaxin A C. elegans		(149)	RIQROLDIAGKQVGDDELEEMIEESCNPGVFTQGIIITDQOAKQFLLADIEARHNDIMKLESSIRELHD MFMDMAM
	Syntaxin Sea	urchin	(148)	RIQROLEITGKSTTDAELEDMEESCNPATFISCI IMTDOAQQLRDLIEARHNDIJKLESSIRELHD MFMDMAM
150	Syntaxin 1A	human	(223)	VESEQEMIDRTEYNVEHADYVERAVSDTKKAVVYQSKARRKKIMIICCCVINGIVINSTYGGIEA--
	Syntaxin 1B2	human	(222)	VESEQEMIDRTEYNVEHSVDMVERAVSDTKKAVVYQSKARRKKIMIICCCVVLSSSTGGGTGLI-
	Syntaxin 1A	mouse	(223)	VESEQEMIDRTEYNVEHADYVERAVSDTKKAVVYQSKARRKKIMIICCCVILGTLISTIGGIEG--
	Syntaxin 1a	drosophila	(226)	VESEQEMIDRTEYHVEHAMDVOTADTKKALYQSKARRKKIMIICCCVILGILAASYVSSYEM--
	Syntaxin A C. elegans		(224)	VESEQEMIDRTEYHVEHAKEFVDRAVADTKKAVYQSKARRKKIMIICLVTVLITGILIFLYAKVL
	Syntaxin Sea	urchin	(223)	VESEQEMIDRTEYNVEQSVDYVETAKMDTKKAVVYQSKARRKKFYIAICCGVALGILVVLIVIA--
22	Syntaxin 1A	human	(223)	VESEQEMIDRTEYNVEHADYVERAVSDTKKAVVYQSKARRKKIMIICCCVINGIVINSTYGGIEA--
	Syntaxin 1B2	human	(222)	VESEQEMIDRTEYNVEHSVDMVERAVSDTKKAVVYQSKARRKKIMIICCCVVLSSSTGGGTGLI-
	Syntaxin 1A	mouse	(223)	VESEQEMIDRTEYNVEHADYVERAVSDTKKAVVYQSKARRKKIMIICCCVILGTLISTIGGIEG--
	Syntaxin 1a	drosophila	(226)	VESEQEMIDRTEYHVEHAMDVOTADTKKALYQSKARRKKIMIICCCVILGILAASYVSSYEM--
	Syntaxin A C. elegans		(224)	VESEQEMIDRTEYHVEHAKEFVDRAVADTKKAVYQSKARRKKIMIICLVTVLITGILIFLYAKVL
	Syntaxin Sea	urchin	(223)	VESEQEMIDRTEYNVEQSVDYVETAKMDTKKAVVYQSKARRKKFYIAICCGVALGILVVLIVIA--